DVD-Receiver
Player

User Guide

Before attempting to connect, operate or adjust this product, please save and read this manual completely.

FCC and Safety Information

CAUTION:

This unit employs a laser. Due to possible eye injury, only qualified service personnel should remove the cover or attempt to service this device. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

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Since it is usual for DVD movies to be released at different times in different regions of the world, all players have region codes and disc can have an optional region code. If you load a disc of a different region code to your player, you will see the region code notice on the screen. The disc will not play, and should be unloaded.

(Possible region codes:)

There are 6 regions (also called "locales"). Each DVD player and disc will be played in one region ONLY.
1: Canada, U.S., U.S. Territories
2: Japan, Europe, South Africa, Middle East (including Egypt)
3: Southeast Asia, East Asia (including Hong Kong)
4: Australia, New Zealand, Pacific Islands, Central America, Mexico, South America, Caribbean
5: Former Soviet Union, Indian Subcontinent, Africa (also North Korea, Mongolia)
6: China

Never make or change connections with the power switched on.

CAUTION VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AVOID EXPOSURE TO BEAM (WARNING LOCATION: INSIDE ON LASER COVERSHIELD)

**CLASS I
LASER PRODUCT**

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Important Safety Instruction

1.   Read these instructions.
2.   Keep these instructions.
3.   Heed all warnings.
4.   Follow all instructions.
5.   Do not use this apparatus near water.
6.   Clean only with a damp cloth.
7.   Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.
8.   Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus including amplifiers) that produce heat.
9.   Do not defeat the safety purpose of the polarized-type plug. A polarized plug has two blades with one wider than the other. The wide blade is provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10.   Protect the power cord from being walked on or pinched particularly at plug, convenience receptacles, and the point where they exit from the apparatus.
11.   Only use attachments/accessories specified by the manufacturer.
12.   Unplug this apparatus during lighting storms or when unused for long periods of time.
13.   Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way; such as when the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
14.   Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

Outdoor use or wet location applications:
An apparatus that does not comply with the requirements in Appendix A# (Outdoor Use and Wet Location Apparatus) shall be marked or the instruction manual packed with the word "WARNING" and the following or equivalent: "To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

A Class II APPARATUS shall be permanently marked with the words "DOUBLE INSULATION" or "Double insulated" and "When servicing use only identical replacement parts."

Precautions

Please read these precautions before operating this unit.

■ Power cord protection

To avoid any malfunctions of the unit, and to protect against electric shock, fire or personal injury, please observe the following.

- Hold the plug firmly when connecting or disconnecting the AC power cord.
- Keep the AC power cord away from heating appliances.
- Never put any heavy object on the AC power cord.
- Do not attempt to repair or reconstruct the AC power cord in any way.

■ Placement

Avoid placing the unit in areas of:

- direct sunlight or heating radiators, or closed automobiles
- high temperature (over 35⁰C) or high humidity (over 90%)
- much dust as the internal parts may be seriously damaged.

■ Non-use periods

When the unit is not being used, turn it off. When left unused for a long period of time, the unit should be unplugged from the household AC outlet.

■ No fingers or other objects inside

- Touching internal parts of this unit is dangerous, and may cause serious damage to the unit. Do not attempt to disassemble the unit.
- Do not put any foreign object on the disc tray.

■ Keep away from water/magnet

- Keep the unit away from flower vases, tubs, sinks, etc. If liquids are spilled into the unit, serious damage could occur.
- Never bring a magnet or magnetized object near the unit.

■ Stacking

- Place the unit in a horizontal position, and do not place anything heavy on it.

■ Condensation

Moisture may form on the lens in the following conditions:

- immediately after a heater has been turned on
- in a steamy or very humid room
- when the unit is suddenly moved from a cold environment to a warm one

If moisture forms inside this unit, it may not operate properly. In this case, turn on the power and wait about one hour for the moisture to evaporate.

■ If there is noise interference on the TV while a broadcast is being received

Depending on the reception condition of the TV, interference may appear on the TV monitor while you watch a TV broadcast and the unit is left on. This is not a malfunction of the unit or the TV. To watch a TV broadcast, turn off the unit.

Selecting the type of disc for the type of TV connected

Both the DVD discs and video CDs have the material recorded in the PAL and NTSC systems. Refer to the table below to select the correct disc type for the type of connected TV.

■ Connecting to the multi-system TV

■ Connecting to the NTSC TV

■ Connecting to the PAL TV

1

Dear Customers

May we take this opportunity to thank you for purchasing this DVD player. We strongly suggest that you carefully study the Operating Instructions before attempting to operate the unit and that you note the listed precautions.

Contents

DVD Playback

Preparations
- Power on the TV set, and select "Video" as the TV input.
- Power on the stereo system if the player has been connected to a stereo system.

Basic Playback

1 Press POWER on.
The power LED is green on.

2 Press EJECT to open the disc tray.
If the unit does not start playback, press FUNCTION button repeatedly until "No Disc" or "DVD" or "CD" or "VCD" appears on the DVD display.

3 Place a disc onto the tray.
Hold the disc without touching its surfaces, position it with the printed title side facing up, align it with the guides, and place it in its proper position.

4 Press EJECT.
- The disc tray closes and the DVD player starts playback if the disc does not have any menus recorded on it.
- If the disc has one or more titles recorded on it, a menu screen will appear on the TV screen.

NOTE: Proceed with steps 5 and 6 when a menu is available on the disc.

5 Press ◄ / ► / ▲ / ▼ or the number button(s) to select the preferred title.

NOTE: To select a title, input a double-digital number, i.e. 01 for chapter 1, 02 for chapter 2, etc.

6 Press PLAY.
The player now starts playback of the selected item.

DVD Playback - continued

Stopping Playback and Returning to The Menu Screen (If a Menu Screen Is Available on The Disc)

Press MENU. The DVD player stops playback, and then displays the menu screen.

After operation
When the DVD player is not in use, remove the disc and press POWER to turn off the player.

NOTE:
- The disc continues to rotate while the menu is displayed even after the player has finished playing a particular disc. When no further selections are to be played, be sure to press the STOP button to clear the menu screen.
- If the disc is placed in upside down (and it is a single sided disc), the player's display will appear "NO DISC" in few seconds.

For your reference:

- When "⊘" appears while a button is being operated, it means that the corresponding operation is prohibited by the player.

Programming DVDs

1 Press STOP.

2 Press MEMORY.
You will see the below program play list displayed on TV screen.

```
1_ _ _ _    4 _ _ _ _    7 _ _ _ _    10 _ _ _ _
2_ _ _ _    5 _ _ _ _    8 _ _ _ _    11 _ _ _ _
3_ _ _ _    6 _ _ _ _    9 _ _ _ _    12 _ _ _ _

Clear All              Play Program
```

3 Arrange the titles and the chapters in a play list by pressing the number buttons.
- In the program play list, you can see four blanks following by each number. First two blanks are title input number. Next two blanks are chapter input number.
- Move the ◄ / ► / ▲ / ▼ cursor buttons to highlight the number for more inputs. The program play list will play in a numeric order.

4 Select "Play Program" and then press Enter.

To Clear Program Play
- Press MEMORY. Select "Clear All" from on-screen display, and then press ENTER.

3

DVD Playback - continued

Press STOP button on the remote.

Note: If you want to power off the unit, press the STOP button on remote first, and then the POWER on the unit.

Rapid Advance (Rapid Reverse)

By the remote control:

Press ◀◀ (F. BWD) or ▶▶ (F. FWD) during playback.

● Normal playback is resumed when you press PLAY.
● The speed of advance (i.e. ▶▶ 2) or reverse (i.e. ◀◀ 2) changes for each press of the buttons.

Skipping Ahead or Back to Chapters

You can skip a specific chapter or track to playback.

Skipping Ahead

Press ▶▶ (NEXT) on the remote control or on the DVD player during playback.

Skips a chapter each time you press the button.

Skipping Back

Press ◀◀ (PREV.) during playback.

When you press the button once midway through a chapter, the DVD player returns to the beginning of the chapter to playback. The player skips a chapter each time you press the button.

DVD Playback - continued

Still Picture (PAUSE)

Press PAUSE/STEP once during playback.

The screen is paused and "▌▌" appears on the TV screen.

To return to normal playback

Press PLAY.

Frame Advance (STEP)

Press PAUSE/STEP twice during playback.

The disc is advanced by one frame each time you press the button. "▶" appears on the TV screen.

To return to normal playback

Press PLAY.

Slow-Motion Playback

Press S.F. ▶ (Slow Forward) during playback.

The playback speed changes (i.e. ▶1/2) each time you press the S.F. ▶ button.

Press S.R. ◀ (Slow Reverse) during play-back.

The playback speed changes (i.e. ◀ 1/2) each time you press the S.R. ◀ button.

To return to normal playback

Press PLAY.

Direct Selection of Scenes

Allows you to locate specific titles of scenes to playback.

1 Press SEARCH during playback.

2 Press ◄ / ► to move the cursor to the title and chapter input blanks.

3 Press the number button(s) to select the possible title and chapter.

● Press CLEAR to clear the Title/Chapter.

Example:
To locate Title 1 Chapter 3, press "0", "0", "1" in order for the Title number, and move the cursor to next 3 input blanks, and press "0", "0", and "3" for the Chapter number.

4 Press ENTER.

● The DVD player starts playback from chapter 1 of the selected title/chapter.

To Exit the direct selection of scenes
Press SEARCH once again.

For your reference:

● When "⊘" appears while you are pressing a button, it may indicate that the corresponding operation is prohibited by the player.

Direct Selection of Scenes- continued

Example: Viewing a disc from a specific time; for example, 1 hour and 50 minutes.

1 Press SEARCH during playback.

2 Press ◄ / ► to move the cursor to the time input blanks.

3 Press the number button(s) to specify the starting time point.

Example:
To locate "01 hr. 50 min. 00 sec.", press "0", "1", "5", "0", "0" and "0" in order.

4 Press ENTER.

● The DVD player starts playback from the specified position.

NOTE:
● These operations work only with discs for which the elapsed playing time appears on the player's display during playback.
● For some discs, PLAY may not start from the specified position even when the steps above have been performed correctly.

To Exit the direct selection of scenes
Press SEARCH once again.

For your reference:

● When "⊘" appears while you are pressing a button, it may indicate that the corresponding operation is prohibited by the player.

DVD

Repeat Playback

Press 1/ALL REPEAT during playback.

Each time you press the button, the disc will repeat a chapter, a title, or repeat Off.

Press once : Repeat Chapter

Press twice : Repeat Title

Press three times : Repeat Off

To return to normal playback

Press 1/ALL REPEAT several times until "Repeat Off" appears.

NOTE:
- Repeat playback works only with discs for which the elapsed playing time appears on the player's display during playback.
- Repeat playback may not work correctly with some DVDs.

Repeating Sections Between Two Specific Points (A-B Repeat)

1 Press A-B during playback at the point where repeat play starts (A).

" 🔁A_ " appears on the TV screen.

2 Press A-B again at the point where repeat play ends (B).

" 🔁B " appears.

Repeat playback of points A to B starts playback.

To return to normal playback

Press A-B again. (" 🔁OFF " appears on the TV screen.)

NOTE:
- A-B repeat playback works only within a chapter.

Convenient Functions

Displaying the Information of the Scene

Displaying the Information of the Scene

1 Press INFO. during playback.

Press INFO. a number of times, the title number, chapter number, audio language, subtitle language, elapsed time, multi-angle mark, the Audio format, and Audio channel will show in sequence on the screen.

Stop Displaying the Information of the Scene

Press INFO. repeatedly until the information disappears. or wait for few seconds until the information is off automatically.

Displaying the Scene With a Larger and Closer View

The ZOOM function enables you to take a closer look at the scene while you are watching a movie.

1 Press ZOOM during playback.

2 Press ZOOM repeatedly to view the scene in a larger size.

Press ZOOM a number of times to see the scene in x1 or x2 size.

To return to normal playback

Press ZOOM a number of times until "Off" is shown on the TV screen.

Convenient Functions - continued

Changing Audio Soundtrack Language

You can change the audio language from the one selected at the initial settings to a different language, if available. (This operation functions only with discs on which multiple audio soundtrack languages are recorded.)

_1_ Press AUDIO during playback.

_2_ Press AUDIO repeatedly to cycle through the possible language, and then select one.

For your reference:
- When the possible language is not heard after pressing the button several times, it may indicate that language is not available on the disc.
- When you turn on or remove the disc the DVD player will play back the language which is selected at the initial setting. If you select a language which is not recorded on the disc the DVD player will play back a prior language programmed on the disc.

Convenient Functions - continued

Hiding/Displaying Subtitles

If a disc provides subtitles, you can choose to hide or display them. (This operation works only with discs that provide subtitles.)

Press SUBTITLE repeatedly during playback to display subtitles or hide them.

When you press SUBTITLE once, the first subtitle recorded on the disc will display. The rest of the subtitles recorded will display in sequence as you press the button.

- You may change to other possible language with this function, or you can hide the subtitle by pressing this button repeatedly until "⬚ OFF" appears on the screen.

Changing Subtitle Language

You can change to other subtitle language by pressing SUBTITLE button, if available.
(This operation works only with discs on which multiple subtitle languages are provided.)

_1_ Press SUBTITLE during playback.

- When no subtitles are recorded "⊘" will display instead of the language number.

_2_ Press SUBTITLE repeatedly until the possible language is selected.

NOTE:
- In some cases, it may take few seconds to wait for the subtitle language to change to the selected one after you press the button.

For your reference:
- If the possible language is not shown after pressing the button several times, it may indicate that language is not available on the disc.
- When you turn on or remove the disc, the DVD player will play back the subtitle language which is selected at the initial setting. If you select a subtitle language which is not recorded on the disc the player will play back the default subtitle language programmed on the disc.

Convenient Functions - continued

Viewing From Another Angle

Some DVD discs may contain scenes which have been shot simultaneously from a number of different angles. For these discs, the same scenes can be viewed from each of these different angles using the ANGLE "📹" button. (The recorded angles may look different from disc to disc)

1 Press ANGLE during playback.

2 Press ANGLE repeatedly until the possible viewing angle is selected.

Press the angle "📹" button a number of times to change the viewing angle.

NOTE:
- ANGLE will only function on discs that different angles have been recorded.

- The viewing angles are shown on the player's display and you can select one room them for viewing .

Using the TITLE menu

Normally, DVD discs are divided into titles, and the titles are subdivided into chapters. However, Some DVD discs may not provide the title menu.

1 Press TITLE during playback.
The DVD menu available on the disc now appears. The menu details are difference from disc to disc recorded.

2 Press ◀ / ▶ / ▲ / ▼ to select the possible item.
Depending on the disc, you can directly locate a specific title by pressing its assigned number with the number buttons on the remote.

3 Press ENTER.

you now enter to the selected item.

To enter other menu screen
Repeat steps 2 and 3.

Convenient Functions - continued

Using the MENU Function

Some DVD video discs have unique menu structures called DVD menus. When you play these DVDs you can select language for subtitles, and the sound or some other features using the DVD menu. The DVD menu's contents and operations may be different from disc to disc.

1 Press MENU.

The DVD menu with a brief introduction appears on the screen.

2 Press ◀ / ▶ / ▲ / ▼ to select the possible item to playback.

3 Press ENTER.

To change other items
Repeat steps 2 and 3.

Convenient Functions - continued

Adjusting Video Picture

You can adjust video brightness and sharpen the edges using TV SYS. button.

1 **Press PICTURE during playback.**

2 **Press ◄ / ► / ▲ / ▼ to select the "Brightness" and "Edges".**

3 **Press ENTER to toggle the possible adjustments.**

4 **Press PICTURE again to save the changes and exit.**

To Mute the DVD Player

In some cases, you may need to mute the DVD player temporarily. This player provides a MUTE function for your selections.

1 **Press MUTE during playback.**

2 **Press MUTE again to resume the sound.**

● When "MUTE" appears on the screen, the sound now is muted. To resume the sound, press the button again.

Convenient Functions - continued

Setting Speaker Sound Balance

You can manually adjust the sound balance on all of the speakers, or individual speakers connected to the DVD player. Therefore, you can enjoy a best possible home theater surround sound.

1 **Press AMP repeatedly to select the possible item.**

"All Ch" (All channel), "Surr Ch" (Surround channel), "Center Ch" (Center channel), "Subw Ch" (Subwoofer channel), "Bass", "Treble" cycle through each time you press ENTER.

2 **Press + Volume - buttons to adjust the speaker volumes.**

The scale of volume goes from +10 to -10. The sound is louder toward + 10, and quieter toward -10.

NOTE:
● This feature works on DVD discs, video discs, audio discs, and MP3 discs.
● Audio channel appears on the screen and on the DVD display while you are adjusting the volume.
● The volume dial of the unit can only adjust main volume.

DVD

Video CD Playback

Preparations
- Press on the power button of the TV set, and select "Video" as the TV input.
- Press on the power button of the stereo system if the player has been connected to a stereo system.

Basic Playback

1 Press POWER on.
The power LED is green on.

2 Press EJECT to open the disc tray.
If the unit does not start playback, press FUNCTION button until "No Disc" or "DVD" or "CD" or "VCD" appears on the DVD display.

3 Place a disc onto the tray.
Hold the disc without touching its surfaces, position it with the printed title side facing up, align it with the guides, and place it in its proper position.

4 Press PLAY.

For video CDs without playback control:
The player starts playback.
For video CDs provided with playback control:
A menu appears after a few seconds.

Menu Playback

- This feature only works on video CDs with playback control (version 3.0).
- The menu details are different from disc to disc recorded, also refer to the instructions accompanying the disc.

After steps 1 to 3 above, the menus are displayed on the TV screen.

5 Press PBC repeatedly until "PBC ON" appears on TV screen.

6 Press PLAY.

The player now starts playing automatically.

NOTE:
◀ / ▶ / ▲ / ▼ cursor buttons may not function to select items in the menu playback for video CDs with playback control. Therefore, you may need to input a number to select the item.

What is playback control (PBC)?
If a video CD has "playback control" written on its disc or jacket, it means that particular scenes or information can be selected for viewing interactively with the TV monitor using the menu screen.

Video CD Playback - continued

Entering other menu screen
After step 4, press ▶▶.

- To return to the previous menu screen press ◀◀.

Stopping playback and returning to the menu screen
Press STOP twice and press PLAY.
- PLAY suspends, and the menu screen appears.

After operation
When the player is not in use, remove the disc and press POWER off.

NOTE:
- The disc continues to rotate while the menu is displayed even after the player has finished playing a particular item. When no further selections are to be played, be sure to press the STOP button.
- If the disc is placed in upside down (and it is a single sided disc), the player's display will appear "NO DISC".
- The menu details are different from disc to disc recorded.

For your reference:

- When "⊘" appears while you are pressing a button, it means that the corresponding operation is prohibited by the player.

Video CD Playback - continued

Locating a Specific Track

This feature allows you to quickly locate a specific track to playback.

_1_ Press PBC repeatedly in stop mode until "PBC OFF" appears on TV screen.

_2_ Press TITLE.
A track menu containing a number of small video clips appears on TV screen.

_3_ Press number button(s) to select the possible item to playback.
If the clips in the track menu are assigned a number, you can directly locate a specific track by pressing number buttons with the remote.

_4_ Press PLAY.
The player starts playback from the selected track.

Locating a Specific Frame

1 Press PBC repeatedly during playback until "PBC OFF" appears on screen.

A "PBC OFF" appears on TV screen.

2 Press TITLE.
You will see the video is divided into small sections of pictures. It starts browsing the sections frame by frame from the point you press the button.

3 Press PLAY.
The player returns to normal playback.

NOTE:

● This feature may be different from disc to disc recorded.

For your reference:

● When " ⊘ " appears while you are pressing a button, it means that the corresponding operation is prohibited by the player.

Video CD Playback - continued

Stopping Playback

Press STOP.

Rapid Advance (Rapid Reverse)

By remote control:
Press ◄◄ (F. BWD) or ►► (F. FWD) down during playback.

● Normal playback is resumed when you press PLAY.
● The speed of advance (i.e. ►►2) or reverse (i.e. ◄◄2) changes for every press of the buttons.

Skipping Ahead or Back to Tracks

Skipping Ahead

Press ►►| (NEXT) during playback.
A track is skipped each time you press the button.

Skipping Back

Press |◄◄ (PREV.) during playback.
When you press the button once midway through a track, the DVD player returns to the beginning of the chapter to playback. The player skips a chapter each time you press the button.

For your reference:

● When you press |◄◄ or ►►| during menu playback of video CDs, a menu screen may sometimes be recalled.

Video CD/Audio CD

Video CD Playback - continued

Pause Play

Press PAUSE once during playback.

The screen is paused and "❙❙" appears on TV display.

To return to normal playback

Press PLAY.

Frame Advance (STEP)

Press STEP twice during playback.

The disc is advanced by one frame each time you press the button. "▶" appears on the screen.

To return to normal playback

Press PLAY.

Slow-Motion Playback

Press S.F. ▶(Slow Forward) during playback

The playback speed changes (i.e. ▶1/2) each time you press the S.F. ▶ button.

Press S.R. ◀ (Slow Reverse) during play-back.

The playback speed changes (i.e. ◀1/2) each time you press the S.R. ◀ button.

NOTE:
● The speed of the slow-motion playback may be different from disc to disc recorded. Each disc may have different slow-motion playback speed.

To return to normal playback

Press PLAY.

For your reference:
● Slow-motion playback in reverse direction is not possible.

Video CD Playback - continued

Setting Audio Sound Effect

This feature only works on video discs, and audio discs.

You can output the sound with an acoustical effect as Standard, Classical, Rock, Jazz, Pop, and User (manually settings).

1 Press EQ (Equalizer).

2 Press ENTER repeatedly to select the possible item.

The possible sound effect items cycle in order each time you press ENTER.

3 Press EQ again.

The sound effect item you select now states play.

NOTE:
● If you select "User" (manually settings), you can customize your own sound effect by pressing ◀ / ▶ / ▲ / ▼ cursor buttons to make the adjustments.

Information [Video CDs]

Displaying the Information of the Scene

Displaying the Information of the Scene

1 Press INFO. during playback.

Press INFO. repeatedly, the total playback time, the elapsed time, and the track number will show in sequence on the screen.

Stop Displaying the Information of the Scene

Press INFO. repeatedly until the information disappears. or wait for few seconds until the information is off automatically.

Repeat Playback

Playing Repeatedly

Press 1/ALL REPEAT during playback.

Each time you press the button, the selection changes and the disc will repeat a track or the entire disc.

Press once : Repeat Single (Repeat a track)

Press twice : Repeat All (Repeat entire disc)

Press three times : Repeat Off

To return to normal playback

Press 1/ALL REPEAT several times until "REPEAT OFF" appears, or you can press STOP to cancel the repeat function and then press PLAY to restart.

NOTE:
● Repeat playback works only with discs for which the elapsed playing time appears on the player's display during playback.

Repeating Sections Between Two Specific Points (A-B Repeat)

1 Press A-B during playback at the point where repeat playback starts (A).

"⬚ A " appears on TV screen.

2 Press A-B again at the point where repeat playback ends (B).

"⬚ B " appears.

Repeat playback starts play points A to B repeatedly.

To return to normal playback

Press A-B again ("Repeat Off" appears on the TV screen), or you can press STOP to cancel the repeat playback, and then press PLAY to restart normal playback.

NOTE:
● A-B repeat playback can only function within a chapter.

Audio CD Playback

Preparations

● Power on the TV set, and then select "Video" as the TV input.
● Power on the stereo system if the player has been connected to a stereo system.

Basic Playback

1 Press POWER on.
The power LED is green on.

2 Press EJECT to open the disc tray.
If the unit does not start playback, press FUNCTION button until "No Disc" or "DVD" or "CD" or "VCD" appears on the DVD display.

3 Place a disc onto the tray.
Hold the disc without touching its surfaces, position it with the printed title side facing up, align it with the guides, and place it in its proper position.

4 Press EJECT.

For audio CDs without playback control:
The DVD player starts playback.

Information [Audio CDs]

Displaying the Information of the Playing Track

Displaying the Information of the Playing track

1 Press INFO. during playback.
Press INFO. repeatedly, the total playback time, the elapsed time, and the track number will appear in sequence on the screen.

Stop Displaying the Information of the Playing Track

Press INFO. repeatedly until the information disappears. or wait for few seconds until the information is off automatically.

Video CD/Audio CD

Stopping Playback

Press STOP.

Rapid Advance (Rapid Reverse)

By the remote control:
Press ◄◄ (Rapid Advance) or ►► (Rapid Reverse) down during playback.

- Normal play is resumed when you play PLAY.
- The speed of forward (i.e. ►► 2) or reverse (i.e. ◄◄ 2) changes each time you press the buttons.
- You can press MUTE button before operating Rapid Advance/Reverse playback.

Skipping Ahead or Back to Tracks

Skipping Ahead

Press ►►► (NEXT) during playback.
A track is skipped each time you press the button.

Skipping Back

Press ◄◄◄ (PREV.) during playback.

When you press the button once midway through a track, the DVD player returns to the beginning of the track to playback. The player skips a track each time the button is pressed.

Pause Play

Press PAUSE during playback.
The player will pause playback.

To return to normal playback
Press PLAY.

Programming Audio CD Soundtrack

You can program soundtracks to play back in your favorite order.

1 Press STOP.

2 Press PROGRAM.

You will see the below list displayed on screen after step 2.

```
PROGRAM
1 __ __ __    4 __ __ __    7 __ __ __    10 __ __ __
2 __ __ __    5 __ __ __    8 __ __ __    11 __ __ __
3 __ __ __    6 __ __ __    9 __ __ __    12 __ __ __
Clear All    Play Program
```

3 Press the number button(s) to arrange the play list.

- Move ◄ / ► / ▲ / ▼ cursor buttons to highlight the number to input more items. The program play list will play in a numeric order.
- In the program play list, input a 3-digit number corresponding to the order of the track number of the audio CD you wish to play.

4 Select "Play Program"

Now the player will play the program list in numeric order.

NOTE:
- The "PROGRAM" indicator on the DVD display lights on while playing programmed soundtracks.
- The default playback order will start from the beginning to the end of the tracks if you did not set the program play. On the contrary, if you did set all the playback order of the available tracks, the DVD player will start playback of the order you specified.

To Clear Program Play

- Press MEMORY. Select "Clear All" from TV screen, and then press MEMORY again.
- Press EJECT. The program list will be cleared automatically. "PROGRAM" indicator on the DVD display now is off.

Audio CD Playback - continued

Shuffle Play

You can play back chapters or tracks in a random order. The "Shuffle Play" order may be in a different order each time you play.

1 Press SHUFFLE

Press the button repeatedly until "SHUFFLE ON" appears on screen. The shuffle play will start in few seconds.

NOTE:
- The Shuffle Play will stop playback automatically after all of tracks have been played once.
- Some DVDs may not perform "Shuffle Play" function.

To Cancel Shuffle Play

- Press CLEAR.
- Press SHUFFLE again until "SHUFFLE OFF" appears on the screen.

Audio CD Playback - continued

Playing MP3 Music Discs

When playing MP3 music discs, proceed the same way you playback audio discs.
Few operations may be slightly different while playing MP3s.

From On-Screen Display

You may playback a track by locating the track from the main menu on-screen display.

1 Press ◄/►/▲/▼ cursor buttons with the remote to select a track.

2 Press PLAY or ENTER.
- The DVD player starts playing the selected number.

```
MP3      Select    Track 1/144        00:03:21

01 01                     08 01
02 --                     09 ----
03 -- SA --               10 -----
04 -- AA --               11 -----
05 -----                  12 -----
06 ----                   13 ----
07 ---------              14 ----------
```

From On Screen Display

You can select the track from the DVD display by pressing its respective track number.

1 Press number buttons with the remote in accordance with its respective track number.
- For example track 98, track 100, and etc.

2 Press PLAY or ENTER.

The DVD player will automatically play back in a while if you didn't press PLAY or ENTER.

NOTE:

- The default playback order will start from the beginning to the end of the tracks if you did not select a track to play.
- To go back to the root directory, press MENU.
- You cannot make a program play on MP3 discs.

Video CD/Audio CD

Radio Operation

___

AM/FM Tuning

1 Press POWER on.
The power LED is green on.

2 Press FUNCTION button.
Press FUNCTION button repeatedly until "FM" or "AM"
appears in the DVD display.

3 Press BAND button.
Press the BAND button to select a possible frequency band.
(FM or AM)

4 Press the -Tuning + (◀◀ or ▶▶) but-
tons to tune into the desired station.

Manual Tuning

● Press the cursor (< or >) buttons as many times as required
to adjust the frequency shown on the DVD display to the
frequency of possible station.

Auto Scan Tuning

● When each time the -Tuning+ (◀◀ or ▶▶) buttons is
pressed, scanning will start automatically searching the first
receivable broadcast station to tune in.

NOTE:
● When radio interference occurs during auto scan tuning, auto
scan may stop automatically at that point.
● If a weak station frequency is found during auto scan tuning,
the station will be skipped.
● If a radio station tuned in is weak, you may slightly adjust
the frequency with the manual tuning the cursor (< or >)
buttons
● "Stereo" will appear on the DVD display when an FM
station broadcast in stereo.

Preset Tuning

You can store up to 75 stations in memory (50 FM stations + 25
AM stations) and recall them simply by pressing the buttons.

To Store Stations Into Memory

1 Perform Steps 1 - 4 in the "Tuning"
section.

2 Press MEMORY button.
"MEMORY" will flash on the DVD display. Press "MEMORY"
once again to store the station in numerical order, starting FM 01
or AM 01.
  ● You can store the station in the selected station number.
  For example:
  *FM 12: Press 12 from number buttons on the remote
  control and press "MEMORY" twice.*

Radio Operation - continued

To Recall a Stored Station

1 Press POWER on.
The power LED is green on.

2 Press FUNCTION button to tuner.

3 Press the -PRESET + (◀◀ or ▶▶)
buttons to select the desired station
among stored stations.
The stations number will appear in the display in numerical order.

To clear a Stored Station

1 Press POWER on.
The power LED is green on.

2 Press FUNCTION button to tuner.

3 Press the -PRESET + (◀◀ or ▶▶)
buttons to select the stored station
you want to clear.

4 Press CLEAR button.

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Radio Operation

RDS Tuning

1 Press POWER on.
The power LED is green on.

2 Press FUNCTION button.
Press FUNCTION button repeatedly until "AM/FM" appears in the DVD display.

3 Press BAND button.
Press the BAND button to select a possible FM frequency band.

4 Press the -Tuning + (◀◀ or ▶▶) buttons to tune into the desired FM station with RDS service.
When a RDS station is tuned in, you will see RDS appears on the radio display.

Displaying Brocasting Information

1 Press RDS button.
You may see the program service name (PS) on an maximum eight character alpha-numerical display instead of frequency, or Radio Text message (RT) which contains maximum 128 characters.

Automatic Searching

Radio Data System provides many convenient search functions in addition to Program Type (PTY) Search tuning.

Some RDS stations send Program Type Identification code which is to provide information about program type, such as NEWS, SPORTS, EDUCATION, CULTURE, and etc. There are Total 31 types of programs. 16 types are allotted in Europe and 23 types in USA. You may search your favorite programs among a specified program type with PTY search function. For example, if you wish to tune into SPORTS program, do following steps;

1 Press PTY button repeatedly until SPORTS appears.
You may press the button to cycle throught possible program types.

2 Press SEARCH button.
Press the button to search the available SPORTS programs that are automatically searched.

What is RDS?

RDS (Radio Data System for VHF/FM broadcasting) are inaudible digital signals, which are sent along with FM radio frequencies.
While listening to a RDS station, listeners can see additional information provided by broadcasters about the station using text display on the radio inculding PS (Program Service name), TP (Travel Program), TA (Travel Announcement), AF (Alternative Frequencies), and some of the newer features such as Program Type (PTY), Radiotext (RT), and etc.

Video CD/Audio CD

LANGUAGE SETUP

> On-Screen Display (OSD) Language Setting

On-screen display provides the information about a disc and its operational status on the TV screen. This feature allows you to set various languages for the on-screen display (OSD).

1 **Press SETUP in the stop mode.**

2 **Press ◄/► to select "LANGUAGE SETUP" then press ENTER.**

3 **Press ▲/▼ to select "OSD Menu" then press ENTER.**

To finish the setup operation
Press RETURN or SETUP button to exit.

LANGUAGE SETUP - continued

> SUBTITLE [DVD]

You can select a possible subtitle language among various languages that has been recorded on discs.

1 **Press SETUP in the stop mode.**

2 **Press ◄/► to select "LANGUAGE" and press ENTER.**

3 **Press ▲/▼ to select "SUBTITLE" then press ENTER.**

To return to the SETUP MENU screen
Press ▲/▼ to return to the setup menu heading.

To finish the setup operation
Press RETURN or SETUP button to exit.

For your reference:
● If the language selected is not recorded on the disc, the subtitle will play back the top-priority language of the disc.

LANGUAGE SETUP- continued

AUDIO [DVD]

You can select a possible soundtrack language among various languages that has been recorded on DVD discs.

1 Press the SETUP in the stop mode.

2 Press ◀/▶ to select "LANGUAGE" then press ENTER.
A drop-down menu appears on TV screen

3 Press ▲/▼ to select "AUDIO" then press ENTER.
A list of available languages appears.

ORIGINAL:
The top-priority language of each disc will always play back first.

To return to the setup menu
Select ▲ / ▼ to return to the setup menu heading.

To finish the setup operation
Press RETURN or SETUP to exit.

For your reference:
● If the language selected is not recorded on the disc, the DVD player will play back the top-priority language of the disc.

LANGUAGE SETUP- continued

DVD MENU

You can select a possible language among various languages to display the disc menu messages that have been recorded on DVD discs.

1 Press SETUP in the stop mode.

2 Press◀/▶ to select "LANGUAGE" and press ENTER.
A drop-down menu appears on TV screen.

3 Press ▲ / ▼ to select "DVD MENU" then press ENTER.
A list of available languages appears.

To return to the setup menu
Select ▲ / ▼ to return to the setup menu heading.

To finish the setup operation
Press RETURN or SETUP to exit.

For your reference:
● If the language selected is not recorded on the disc, the DVD player will playback the top-priority language of the disc.

Initial Settings

SCREEN SETUP

TV Shape

According to the TV set connected to the player you can set your TV display size to 4:3 Pan Scan or 4:3 Letter Box or 16:9 for a wide-screen TV.

1 Press SETUP in the stop mode.

2 Press ◄/► to select "VIDEO" and press ENTER.

3 Press ▲/▼ to select "TV Shape" then press ENTER.

4 Press ▲/▼ to select a possible TV display.

4:3 PS
Select 4:3 PS for a conventional size TV set.

Video material formatted in the pan & scan style is played in that style (the left and right edges are cut off).

4:3 LB   (factory preset setting)
Select 4:3 LB for a conventional size TV set.

Black bands appear at top and bottom of screen (letter-box style).

● Video material not formatted in the pan & scan style is played in the letter-box style.

16:9
Select WIDE for a wide-screen TV set.

Played in "FULL" size.

● Setting the wide-screen TV to "FULL" mode is also necessary.

● Each screen shows an example when the video material for a wide-screen is played.

5 Press PLAY.

To return to the setup menu
Select ▲/▼ to return to the setup menu heading.

To finish the setup operation
Press SETUP to exit.

SCREEN SETUP - continued

TV SYSTEM

The player provides "PAL", "NTSC", and "AUTO" settings for your selection. (Refer to page 1 for the examples).
Video output changes according to the playback disc's recorded format. When connecting the DVD player to your TV, set the "TV SYSTEM" from the on-screen display to the format that is compatible with your TV's system. You can set "AUTO" if your TV is a multi-TV system that supports both PAL and NTSC.

1 Press SETUP.

2 Press ◄/► to select "VIDEO" and press ENTER.

3 Press ▲/▼ to select "TV SYSTEM", then press ENTER.

4 Press ▲/▼ to select the appropriate TV system for your clearest view.

● We strongly recommend you to select "AUTO" setting in order to autoplay the corresponding disc materials and prevent the unnecessary exchanging process.

● PAL-M is only for Brazil.

5 Press ENTER.

To return to the setup menu
Select ▲/▼ to return to the setup menu heading.

To finish the setup operation
Press SETUP to exit.

SCREEN SETUP- continued

Audio [DVD]

The DVD players provides various types of audio output to set on and that include 2-channel digital stereo sound, and Dolby Digital 5.1/DTS digital surround sound.

1 Press SETUP in the stop mode.

2 Press ◄/► to select "AUDIO" and press ENTER.

3 Press ◄/► to select "Analog Out" or "Digital Out", and then press ENTER.

● If you want to listen to the sound of audio CDs and DVDs in stereo on your audio system via analog output, select "Analog Out".

● If you want to listen to the home theater surround sound of DVDs on your multiple dynamic speakers, select "Digital Out".

4 Press ▲/▼◄/► to select "Dolby D" or "DTS" or "MP3" or "Other", and then press ENTER.

● Select the audio setting "Dolby D", "DTS", "MP3", or "Other" depending on the kind of audio discs you play on the DVD video player.

5 Press ▲/▼◄/► to select a high quality dynamic or a stereo sound.

● If you set "Digital Output" to <**Raw**> from on-screen display the sound will be output as the original sound recording format on DVD discs (For example, Dolby Digital, DTS). If you set to <**PCM**>, the sound will ONLY be output as Linear PCM format sound in disregards to the original sound recording format on DVD discs. Linear PCM format sound can ONLY hear digital stereo (2-channel) sound though the playback disc may provide 5.1-channel digital surround sound.

6 Press ENTER.

WARNING:
● Do not connect both analog output (R/L) and digital output (Coaxial/optical) at the same time for audio output.

To return to the setup menu
Select ▲/▼ to return to the setup menu heading.

To finish the setup operation
Press SETUP to exit.

SCREEN SETUP- continued

More Audio [DVD]

You can obtain the full benefit of Pro Logic from the same DVD movies that provide full 5.1-channel Dolby Digital soundtracks, as well as from titles with the Dolby Surround mark.

1 Press SETUP in the stop mode.

2 Press ◄/► to select "MORE AUDIO" and press ENTER.

3 Press ▲/▼ to switch "Pro Logic" to "ON" or "OFF", and then press EN-TER.

● Switch "Pro Logic" ON, the DVD player can provides Dolby Pro Logic Surround sound by connecting to a multiple speaker system (right and left front speakers, a center speaker, and one or two rear speakers).

● Switch "Pro Logic" OFF when you want to play a DVD audio discs via 2-channel digital sound output.

Send A Test Tone

You can output a test tone to check each individual speaker for realistic surround sound after connection.

4 Perform the step 1 and 2

5 Press ▲/▼ to select "PINK NOISE"

6 Press ▲/▼◄/► to select a speaker you want to send a test tone.
● You will hear the test tone from the speaker you selected.

NOTE
● Select "PINK NOISE" to "OFF" to turn off the test tone.

To return to the setup menu
Select ▲/▼ to return to the setup menu heading.

To finish the setup operation
Press SETUP to exit.

Initial Settings

CUSTOM SETUP

Password [DVD]

A viewer rating lock enables you to lock the DVD video discs that contain violent scenes which is not suitable for children to view.

1 Press SETUP in the stop mode.

2 Press ◄/► to select "RATING" and press ENTER.

3 Press ▲/▼ to select "Password"and press ENTER.

4 Enter a 4-digit password and press ENTER.

Factory pre-set password : 9999

- you need to enter "9999" to set the rating for the first time when purchasing your DVD from the store.

- To change the password, input the old password to unlock the rating as you can see "⌐" appears on screen, and then enter a new password to lock the rating as you can see "⌐" appears on screen.

To return to the setup menu
Select ▲/▼ to return to the setup menu heading.

To finish the setup operation
Press SETUP to exit.

For Your Reference:
- You can use the viewer rating lock ONLY with DVD video discs featured with the rating lock function.

- Some discs may not be encoded with specific rating level information though its disc jacket says that is for "adults". For those discs, the rating lock will not function.

CUSTOM SETUP- continued

Rating [DVD]

You can set on the rating lock to a specific rating so that the DVD video discs rated higher than the rating you selected cannot play unless the correct password is entered.

The Ratings are :	1. Kid Safe	5. PG-R
	2. G	6. R
	3. PG	7. NC-17
	4. PG-13	8. Adult

1 Complete the steps on previous "Password" setup to unlock the rating first.
you can see "⌐" appears on screen.

2 Press ▲/▼ to select "Rating"

3 Press ENTER to select a rating.
Press ENTER to cycle possible ratings.

4 Press ▲/▼ to go back to "Password" setup, and input a new password to lock the rating.

you can see "⌐" appears on screen.

5 Press ENTER.

To return to the setup menu
Select ▲/▼ to return to the setup menu heading.

To finish the setup operation
Press SETUP to exit.

Troubleshooting

Before requesting service for the DVD player, check the chart below for a possible cause of the problem you are experiencing. Some simple checkups or a minor adjustment on your part may eliminate the problem and restore proper operation.

SYMPTOM (COMMON)	REMEDY
No power.	• Insert the power plug securely into the power outlet. • Check if the ON/OFF button on the front of the player is set to on. • Check if no power at the AC outlet by plugging in another appliance for a test.
The player does not start playback when PLAY is pressed. The player starts playback but stops immediately.	• Condensation has formed: wait about 1 to 2 hours to allow the player to dry out. • This player cannot play discs other than DVDs, video CDs and audio CDs. • Check if the disc is defective by trying another disc. • Check the region (local) code. • The disc may be dirty and may require cleaning. • Ensure that the disc is installed with the label side up.
No picture.	• Ensure that the equipment is connected properly. • Ensure that the input setting for the TV is "Video". • Check if the TV is on. • Select the same channel and source on the TV as on the player.
No sound. Distorted sound. No audio at Digital Output.	• Ensure that the equipment is connected properly. • If using a HiFi amplifier, try another sound source. • Check the Audio Output Setting menu to make sure that Analog Output is selected. • Ensure that the input settings for the TV and stereo system are proper. • No sound is heard during still picture (pause) or slow-motion playback. • Check the digital connections. • Check the settings menu to make sure that the digital output is set to on. • Check if the audio format of the selected audio language matches your receiver capabilities.
Distorted picture.	• Check the disc for fingerprints and clean with a soft cloth, wiping from center to edge. • Sometimes a small amount of picture distortion may appear. This is not a malfunction.
Completely distorted picture or no color in picture.	• The disc format is not according to the TV-set used (PAL/NTSC).
Picture is distorted during rapid advance or rapid reverse.	• The picture will be somewhat distorted at times: this is normal.
No rapid advance (or rapid reverse) playback.	• Some discs may have sections which prohibit rapid advance (or rapid reverse).
No 4:3 (16:9) picture.	• Choose the correct setup "TV DISPLAY" item which matches the TV set used.
No operations perform with the remote control.	• Check the batteries are installed with the correct polarities (+ and –). • The batteries are depleted: replace them with new ones. • Point the remote control unit at the remote control signal sensor and operate. • Operate the remote control unit at a distance of not more than 7 meters from the remote control signal sensor. • Remove the obstacles between the remote control unit and remote control signal sensor.
No key operation (by the DVD player and/or the remote control) is effective.	• Turn the unit off and then back to on. Alternatively, turn off the unit, disconnect the AC power cord and then re-connect it. (The player may not be operating properly due to lightning, static electricity or some other external factor.)

For Your Reference

SYMPTOM [DVD]	REMEDY
PLAY does not start playback even when title is selected.	• This may be a result of the parental lock function that has been set. Confirm the "PARENTAL" setup.
Audio soundtrack and/or subtitle language is not the one selected at the initial settings.	• If the audio soundtrack and/or subtitle language does not exist on the disc, the language selected at the initial settings will not be seen/heard.

(Continued on the next page)

Troubleshooting - continued

SYMPTOM [DVD]	REMEDY
No subtitles.	• Subtitles appear only with discs that contain them. • Subtitles are hidden from the TV screen. Press SUBTITLE to display the subtitles.
Alternative audio soundtrack (or subtitle) languages cannot be selected.	• An alternative language can not be selected may result of no more than one language available.
Angle cannot change.	• This function depends on software availability. Even if a disc has a number from angles recorded, these angles may be recorded for specific scenes only.

SYMPTOM [Video CD]	REMEDY
No menu playback	• This only functions for video CDs with playback control (version 2.0 and above).

Disc Handling and Maintenance

Handling Precautions

- Hold the disc by the edges so the surface will not be soiled with fingerprints. (A)
  Fingerprints, dirt and scratches can cause skipping and distortion.
- Do not write on the label side with a ball-point pen or other writing utensils.
- Do not use record cleaning sprays, benzine, thinner, static electricity prevention liquids or any other solvent.
- Be careful not to drop or bend the disc.
- Do not install more than 1 disc on the disc tray.
- Do not try to close the disc tray when the disc is not installed properly. (B)
- Be sure to store the disc in its exclusive case when not in use.

If the surface is soiled (C)
Wipe gently with a soft, damp (water only) cloth.
When wiping discs, always move the cloth from the center hole toward the outer edge.
(If you wipe the discs using a circular motion, circular scratches are likely to occur, which will cause noise.)

If the disc is brought from a cold to a warm environment, moisture may form on the disc
Wipe this moisture off with a soft, dry, lint-free cloth before using the disc.

Improper disc storage
You can damage discs if you store them in the following places:
- Areas exposed to direct sunlight
- Humid or dusty areas
- Areas directly exposed to a heat outlet or heating appliance

Disc which cannot be played with this player
- CD-ROM
- CDV
- CD-G
- DVD with a Locale No. other than that shown on the DVD unit's Region Code Label on the rear panel
- Do not try to play Photo CD

Maintenance

- Be sure to turn the unit off and disconnect the AC power cord before maintenancing the unit.
- Wipe this unit with a dry soft cloth.
  If the surfaces are extremely dirty, wipe clean with a cloth which has been dipped in a weak soap-and-water solution and wrung out thoroughly, and then wipe again with a dry cloth.
- Never use alcohol, benzine, thinner, cleaning fluid or other chemicals. And do not use compressed air to remove dust.

(A)

(B)

Disc tray   **X**   Disc

(C)

O   X
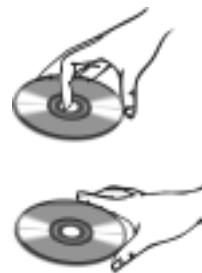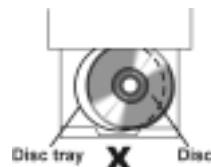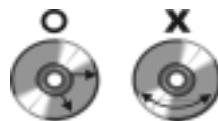
Definition of Terms

Angle
Recorded onto some DVD discs are scenes which have been simultaneously shot from a number of different angles (the same scene is shot from the front, from the left side, from the right side, etc.). With such discs, the ANGLE button can be used to view the scene from different angles.

Chapter Number
These numbers are recorded on DVD discs. A title is subdivided into many sections, each of which is numbered, and specific parts of video presentations can be searched quickly using these numbers.

DVD
These refer to a high-density optical disc on which high-quality pictures and sound have been recorded by means of digital signals. Incorporating a new video compression technology (MPEG II) and high-density recording technology, DVD enables aesthetically pleasing full-motion video to be recorded over long periods of time (for instance, a whole movie can be recorded).
DVD has a structure consisting of two 0.6 mm thin discs which are adhered to each other. Since the thinner the disc, the higher the density at which the information can be recorded, a DVD disc has a greater capacity than a single 1.2 mm thick disc. Since the two thin discs are adhered to each other, there is the potential to achieve double-sided play sometime in the future for even longer duration play.

Playback Control
This is recorded on a video CD (version 2.0). The scenes or information to be viewed (or listened to) can be selected interactively with the TV monitor by looking at the menu shown on the TV monitor.

Subtitles
These are the printed lines appearing at the bottom of the screen which translate or transcribe the dialogue. They are recorded on DVD discs.

Time Digit
This indicates the play time which has elapsed from the start of a disc or a title. It can be used to find a specific scene quickly. (It may not work with some discs.)

Title Number
These numbers are recorded on DVD discs. When a disc contains two or more movies, these movies are numbered as title 1, title 2, etc.

Track Number
These numbers are assigned to the tracks which are recorded on video CDs and audio CDs. They enable specific tracks to be located quickly.

Video CD
This contains recordings of pictures and sound whose quality is on a par with that of videotape. This player also supports video CDs with playback control (version 2.0).